Pien, Catarina@DeltaCouncil

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Sent: Peter Moyle <pbody>equivalents.edu>
Thursday, August 30, 2018 11:35 AM

To: Delta Council ISB

Subject: Draft ecosystem prospectus on non-native species

This is a good prospectus on an important topic. Some comments:

- a. Define your terms early in the review. Invasive species are not the same as non-native species, for example. I would reserve the term for species are harmful and are expanding or have high potential to expand their ranges in CA. A new term may be needed for once invasive species that may once have been harmful but are now thoroughly integrated into CA ecosystems (e.g., striped bass). Non-native resident species?
- b. Investigate the concept of 'novel ecosystem' and how well it defines the present Delta ecosystem. The Delta has got to be one of most altered ecosystems in the world, with a much higher biodiversity than it once had, thanks to additions of non-native species. This is also a good context to incorporate reconciliation ecology.
- c. A topic not directly mentioned is having sufficient information to know when it is worth the effort to control non-native- or even native species that have become perpetual problems, especially aquatic weeds. When is the cure worse than the disease?

I would also like to mention that I am starting a project, funded by DWR, to look at the history, ecology and management of striped bass in the San Francisco Estuary. This study should be relevant to this review.

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